

The Chemical Company

Foaming Agent

CAA Admixtures Categories for "Special Purposes"

Description of Product

RHEOCELL RHEOFILL admixture is a ready to use, self-contained product for use in various Regular Controlled Low Strength Materials (flowable fill) applications where reduced densities (unit weights) and air contents of up to 35% are desired.

Fields of Application

RHEOCELL RHEOFILL admixture produced CLSM can be used in any application in lieu of compacted soil/fill. RHEOCELL RHEOFILL admixture is used in Regular-CLSM mixes to lower the density (unit weight), eliminate settlement, and to control strength development.

RHEOCELL RHEOFILL can be used in the following applications:

- Backfill (flowable fill) - sewer trenches, utility trenches, bridge abutments, retaining walls, conduit trenches, etc.
- Structural Fill - foundation sub-bases, floor slab bases, pipe bedding.

Features and Benefits

RHEOCELL RHEOFILL admixture produces stable air contents of 15 to 35%. Regular-CLSM (flowable fill) produced with RHEOCELL RHEOFILL admixture offers the user the following:

- Reduced water content by as much as 50%
- Increases yield
- Optimum workability can be produced in either fluid or plastic consistency
- Increases pumpability
- Little or no bleeding
- No segregation
- Reduced shrinkage
- Reduced settlement
- Control of strength development
- Cost effective compared to in place cost of compacted soil

Technical Data/Typical Properties

Appearance	White Powder
Specific gravity @ 20°C	0.7 g/cm ³
Chloride Content (%)	Less than or equal to 0.10
Alkali Content (%)	Less than or equal to 0.10
Chlorine Content (%)	Less than or equal to 0.10
pH-value	9.0 to 11.0

Application Procedure

RHEOCELL RHEOFILL admixture is a powdered material packaged in a ready to use soluble bag. RHEOCELL RHEOFILL admixture is formulated for use in producing Regular-CLSM (flowable fill) mixes. It is not recommended for use in conventional concrete.

RHEOCELL RHEOFILL admixture performs best when added to mixes with an initial slump of 25 to 75mm.

If necessary, the water content of the mix should be adjusted to obtain a maximum 75 mm initial slump. The unopened RHEOCELL RHEOFILL admixture bag is simply thrown into the truck hopper and mixed with the previously batched materials for a minimum of 5 minutes at slow mixing speed. It is not necessary to wash down the hopper after adding RHEOCELL RHEOFILL admixture.

RHEOCELL RHEOFILL may be added at the jobsite or at the ready-mix plant.

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Note:

Setting times may be extended when high air content producing materials are used. If an earlier load bearing (set) time is desired, an accelerating admixture may be used in the CLSM mixture.

Test Results

Performance data using Type II cement	
	Mix 1 1.0 m ³ Load
Cement kg/m ³	60
Sand kg/m ³	1,340
Water kg/m ³	100
Pozzoloth 324N ml/m ³	619
RHEOCELL RHEOFILL	1 small bag
Air Content	33%
Compressive Strength Nmm⁻²	
@ 28 days	0.8
@ 56 days	1.0

Packaging

RHEOCELL RHEOFILL is supplied in a case containing 50 x 0.095kg (1.0 m³) bags.

Coverage

One 0.095kg bag will treat 1.0 m³.

Storage

RHEOCELL RHEOFILL admixture should be stored in a dry area at temperatures below 54°C.

Shelf Life

Up to 12 months if stored according to manufacturer's instructions in unopened original packaging.

Watchpoints

Gloves and goggles are recommended when handling RHEOCELL RHEOFILL.

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Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Spillage

Chemical products can cause damage; clean spillage immediately.

DISCLAIMER

"BASF plc, Construction Chemicals " (the Company) endeavours to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use.

Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application.

Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest Product Literature.